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ABSTRACT

This 48-item annotated bibliography is a supplement to the basic one published in 1970. These bibliographies are selective subject guides prepared to aid in the fulfillment of the mission of Air Force libraries in the Pacific area by providing reading materials for research, reference, job information, self-education, collateral reading assistance in formal education and training courses, and for leisure-time recreational reading. The bibliography is listed under 15 categories. They are: general works (1), employment (7), study (2), correspondence schools and courses-directories (1), reading-bibliographies (1), language (English) (2), speech (1), the arts (4), literature (3), music (1), social and behavioral sciences (5), science and technology (7), computer technology (1), mathematics (6), and economics (2). An index is also provided. (JS)

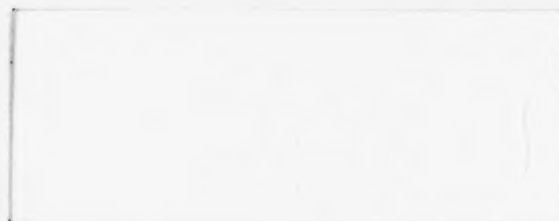
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PACAF BASIC BIBLIOGRAPHIES



AC 012 769

PACAF BASIC BIBLIOGRAPHIES
FOR
BASE LIBRARIES

SELF-EDUCATION FOR
ADULTS
SUPPLEMENT I

Prepared by
Louise R. Donohue
Wakkanai Base Library
1 April 1971

Supplements PACAF Basic Bibliography, SELF-EDUCATION
FOR ADULTS, dated 1 April 1970

PACAF BASIC BIBLIOGRAPHIES

Accident Prevention
Accounting, Statistical Services and Data Processing
Aeronautics
Architecture, Building and Engineering
Arms and Armaments
Basic Religious Books and Chaplains Services
China, Taiwan, Hong Kong
Communications and Electronics
Community Recreation
Criminology
Exploration of Space
Fiction Men Read
Health and Hygiene
Information Services and Public Speaking and Writing
Intelligence
Japan and Okinawa
Korea
Management (Excluding Personnel)
Manual Arts and Crafts
Micronesia Polynesia and Australasia
Personal Finance and Investment
Personnel Management
Photography
Psychology
Race Relations
Reference Books
Self-Education for Adults
Southeast Asia
Transportation
When to Buy What

Copies of the bibliographies above may be
obtained from CINCPACAF (DPSR)/ Director, PACAF
Libraries APO San Francisco 96553

PREFACE

PACAF Basic Bibliographies, sponsored by the Commander-in-Chief, Pacific Air Forces, are selective subject guides prepared as an aid in the fulfillment of the mission of Air Force libraries in the Pacific area: to provide reading materials for research, reference, job information, self-education, collateral reading assistance in formal education and training courses, and for leisure-time recreational reading.

Through the annotations, the continuously revised bibliographies serve both as book selection guides for specific research and reference collections required by the technician in his assigned Air Force mission, and also for the general reader who uses the Base Library for self-improvement and recreational reading.

1 August 1958

PACAF Bibliography Committee

This publication, supplementing the basic bibliography dated 1 April 1970, is again a selection guide for Air Force Librarians and a study aid for military personnel.

Only those books which can be used by the reader independently, that is without the help of a teacher or classroom instructor, etc., have been included.

Wakkanai Air Station
1 April 1971

Louise R. Donohue

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EXPLANATION OF SYMBOLS

*Starred items recommended as basic for Air Force Libraries.

Number at end of entry is LC printed card number.

-Dash indicates titles are in programmed instruction.

Source of Annotations

BRD - BOOK REVIEW DIGEST

CHOICE - CHOICE: BOOKS FOR COLLEGE LIBRARIES

LD - Annotations written by Louise Donohue

LJ - LIBRARY JOURNAL

PLC - PUBLIC LIBRARY CATALOG 1969 Supplement
to the 5th ed.

General Works

*Knowles, Malcolm S. THE MODERN PRACTICE
OF ADULT EDUCATION: ANDRAGOGY
VERSUS PEDAGOGY Association Press
1970 384p illus index \$12.95
72-93430

"In the process of revising his INFORMAL ADULT EDUCATION (Association Press, 1950) Knowles realized that his theory of how adults learn had changed so drastically that he had to write a new book. Based on what he calls 'andragogy', as opposed to the old-fashioned pedagogy, an approach suitable only for use with children, MODERN PRACTICE begins by defining the new term and then shows how its application to adult learning makes new techniques necessary. About two-thirds of the book explains these techniques. The remainder outlines the operation of programs and uses material from INFORMAL ADULT EDUCATION with only minor changes. Reading lists appearing throughout are excellent. This important, creative work by an outstanding scholar and practitioner in adult education will be a landmark for a long time to come. It will be a useful planning and reference guide for those with some experience. Important for adult education collections of any size." LJ 15 Oct 70

Employment

Allen, Louis L. STARTING AND SUCCEEDING IN
YOUR OWN SMALL BUSINESS: FOREWORD by
Frank L. Tucher; Introduction by Wilford L. White
Grossett 1968 157p \$5.95

"A realistic and practical guide to starting (financing) and successfully operating a small business, by one of the country's leading management consultants. McClurg. Book News. " PLC

Black, James Menzies HOW TO GET RESULTS FROM
INTERVIEWING: A PRACTICAL GUIDE FOR
OPERATING MANAGEMENT McGraw 1970
203p index \$8.95 73-111987

"Line managers who conduct interviews may profit from this succinct book by Black of the College of Business Administration, University of South Carolina, and author of books and articles in the personnel field. His self-help guide, logically organized as an introduction to the principles of interviewing, covers an interviewer's self-appraisal analysis, a detailed chapter on the importance of listening habits in interviewing, and an almost programmed procedure for job, appraisal, promotion, counseling, disciplinary, and exit interviews. Although the material is not new, Black's common-sense approach is worth having." LJ Aug 70

Chamberlain, Betty THE ARTIST'S GUIDE TO HIS
MARKET Watson-Guptill 1970 128p
index \$5.95 70-87323

"As the founder of Art Information Center, New York, which assists artists seeking outlets and galleries searching for talent, Chamberlain is well qualified to write this book. . . . She offers sage, practical advice on exhibiting, galleries, pricing, selling, commissions, contracts, publicity, and artists' groups. The book is brief but studded with supplemental references. Chamberlain recognizes that her work is limited to New York and laments the lack of a current list of galleries. . . . Revised periodically, this book could become a standard art reference work." LJ 1 Jun 70

Duckat, Walter A GUIDE TO PROFESSIONAL
CAREERS Messner 1970 285p biblio
\$5.95 72-100572

"Would serve as a helpful volume in the library or counseling office under the general area of vocational placement and opportunity. Duckat takes approximately 80 vocational possibilities and discusses briefly the kinds of work required of persons engaged in the particular occupation along with income received and the training required.

A brief statement of what the future holds for each occupation is included with references to which one might look for further information. In many of the occupations, various subdivisions or specializations are delineated. There are two appendices: one lists jobs with the Federal government based on college major; the other lists, by occupation, sources for free vocational information. Very slight and not too useful bibliography of nine items." CHOICE Oct 70

Jaquish, Michael P. PERSONAL RESUME PREPARATION Wiley 1968 158p illus (Wiley Ser. On human communication) \$5.95 68-20098

"This book presents an analysis of the definition, purpose and history of personal employment resume. The author contends that a resume should be more than just a bland job history - it should be an advertisement or sales brochure featuring the knowledge and ability of the applicant." Publisher's note. 'If your library has requests for materials on job resumes this book is for you. It differs from books on the subject in that it contains more explanatory text, and fewer sample resumes; there is no section devoted to interviewing. The writing style is easy and can be understood by any adult reader.' " PLC 68

Miller, James R., III PROFESSIONAL DECISION-MAKING: A PROCEDURE FOR EVALUATING COMPLEX ALTERNATIVES (NEW DIRECTIONS IN MANAGEMENT & ECONOMICS) Praeger 1970 288p \$12.50 77-25680

"The author is dissatisfied with profit maximization as the normative principle for decision-making behavior. He describes institutions and government agencies that do not consider dollar profits when deciding on courses of action. Using the tools of statistical decision theory, systems analysis and operations research, the author

delineates the development of nonmonetary assessment procedures. . . . He explores the relevance of types of performance indicators, ethical problems, modern values, and other factors. This book, which is extremely readable, free from jargon, and comprehensive in giving detailed structures, should appeal to government agencies, nonprofit organizations, and persons in staff positions." LJ Aug 70

Reynolds, Paul R. THE NON-FICTION BOOK: HOW TO WRITE AND SELL IT Morrow 1970 150p \$5.00 72-99189

"This is a concise text for the beginning freelance writer. In two parts, one devoted to writing the book and the second on publication, the author provides concrete guidance to writing for gain. He does not aim to teach writing as much as to advise on realistic approaches to dealing in salable terms. The chapters on publication include practical instructions on choosing a publisher, on reading book contracts, and on the fiscal operations of publishers. Notable for its concision, this little book carries a wealth of useful guidance. It will be an eagerly sought addition to even small reference collections." LJ 15 Feb 70

Study

Barzun, Jacques & Henry F. Graff THE MODERN RESEARCHER rev ed Harcourt 1970 430p biblio index \$8.50 \$3.45pa 72-115861

"In this thoroughly revised and enlarged edition of an extremely popular guide to historical research, the authors argue in the preface that the work will be of use to any researcher, whatever his specialty. However, the book has been most widely used in the past by students of history, especially as a text in courses on historical research. The authors have rewritten a sizeable proportion of the text, added some new illustra-

tions, and updated the extensive bibliography. Well bound and carefully printed, with a useful index, this new edition should replace the first (1957) on library shelves. Recommended for school, public, and academic libraries." LJ
Jul 70

*Gates, Jean Key GUIDE TO THE USE OF BOOKS
AND LIBRARIES 2nd ed McGraw 1969
273p \$3.95 78-85918

"Almost the same as the 1962 edition (BRD 1962) with the exception of some recent titles added in the listings of reference sources, a few new paragraphs on library catalogs in book form, and an added section on LC in the 'Classification' chapter. Even though one of the better introductions to the library for undergraduates, it demonstrates the difficulty, indeed the impossibility, of doing one guide to cover all fields adequately. The section on classification and the card catalog are the best; those on reference materials in the subject areas are the weakest, since there are too many omissions, inconsistencies, and incongruities and not very helpful annotations for many of the titles included . . . Yet, despite its shortcomings, the book should be in the college library." BRD
May 70

Correspondence Schools and Courses Directories

United States Armed Forces Institute CORRESPON-
DENCE COURSES OFFERED BY COLLEGES AND
UNIVERSITIES USAFI Madison Wis. 53713
Annual

"A listing grouped by university giving course titles, number of lessons, credit hours, and enrollment fee. There is a subject index with cross references." LD

Reading-Bibliographies

*Downs, Robert B. BOOKS THAT CHANGED AMERICA
Macmillan 1970 280p biblio index
\$6.95 71-84430

"Having previously written BOOKS THAT CHANGED THE WORLD (ALA, 1956) and MOLDERS OF THE MODERN MIND (LJ, December 1, 1961), Downs now discusses 25 titles which in his judgment have effected changes in American life, usually for the good, but now without pain and suffering and bitter controversy. The titles range from Tom Paine's COMMON SENSE to Rachel Carson's SILENT SPRING. Others are Mrs. Stowe's UNCLE TOM'S CABIN, Upton Sinclair's THE JUNGLE, and John K. Galbraith's THE AFFLUENT SOCIETY. Political and economic treatises mingle with fiction, scientific reports, and legal essays. Each title (and almost every author) is afforded a thoughtful analysis and an explanatory essay which provides a useful, quick summary superior to a mere review and long enough (10-12 pages) to have some substance. Recommended for all libraries. LJ 15 Apr 70

Language, English

Cattell, N.R. THE NEW ENGLISH GRAMMAR: A DESCRIPTIVE INTRODUCTION MIT Press 1969
162p index \$ 8.95 73-91605

"Cattell has written an excellent introduction to the syntactic aspects of the transformational generative grammar of English — the 'new grammar' of the public schools. His book should appeal to curious high school students, their teachers and parents, college undergraduates, and informed laymen. Cattell sidesteps some current controversial issues (do underlying structures have string order?; is the passive more derivative than the active?), but provides a solid base for further exploration. His educational approach is strictly descriptive; improvement in the use of English is not due to learning prescriptive rules, but is a by-product of a better understanding of the structure of language." LJ 15 May 70

Wallwork, J. F. LANGUAGE AND LINGUISTICS:
AN INTRODUCTION TO THE STUDY OF
LANGUAGE Humanities 1970 184p
biblio index \$4.50

"The author, senior lecturer in language, Furzdown College of Education, London, has written a very thorough, pleasant introduction to linguistics for laymen, students, and language teachers. Her theoretical bent, scale and category grammar, is clearly and concisely explained, but she quite fairly summarizes alternative approaches, e.g., transformational grammar and structuralism. She is especially good on stress and intonation in English, child and adult learning, and language in its social context. She clarifies the reason why modern linguistics can provide useful insights into language but cannot specify the content of educational curricula. Thus, the book contains both neat summaries of complex issues and stimulating new facts, even for the advanced student of linguistics." LJ 15 Jan 70

Speech

Ott, John HOW TO WRITE AND DELIVER A SPEECH
Trident Press 1970 192p \$5.95
76-119494

"From his fourteen years as a speech writer Ott has compiled some very practical and useful suggestions for the novice speaker. The title is somewhat misleading in that the emphasis is on writing. The importance of the speech's purpose and preparation are pointed out. He stresses the need to know the audience and to research the material in order to give a speech that will be lively and interesting. Not only can he explain how to hold the attention of an audience, but also he holds the attention of his readers." LD

The Arts

Barrett, Cyril OP ART Viking 1970 192p
illus some color biblio index \$10.95
70-109217

"Op (optical) art reached the public in 1963 and gained immediate attention and appreciation. In this survey Barrett shows that op art is more than optical illusion which produces physiological response. Although he gives studies of optical effects made by psychologists and physiologists, he also takes pains to show the relationship to such forms as Cubism, constructivism, and kinetic art. Barrett, who lectures in aesthetics at the University of Warwick, England, traces the history of op in connection with the principal practitioners in Europe, Great Britain, and America, and includes a chapter on pro and con critical assessment. The illustrations are crisp and clear and are cued in well to the text. An obvious purchase for all collections needing such material." LJ 1 Jan 71

Chamberlain, Betty THE ARTIST'S GUIDE TO HIS
MARKET

See complete entry on page 2

*Focillon, Henri THE ART OF THE WEST IN THE
MIDDLE AGES 2nd ed Phaidon 1969 2v
biblio (Phaidon Paperback) pt.1: \$4.50 pa.;
pt. 2: \$4.95pa 69-12792

"Contents — v.1: Romanesque Art; v.2: Gothic Art. One of the most important books ever written on medieval art, Focillon's Art d'Occident has been a standard study for scholars and students since 1938. The long wait for an English translation was due to the fact that few people could translate Focillon's exquisite French, but Donald King's has come as close as possible to success. American students who never heard of Henri Focillon have benefitted from his contri-

bution to the history of medieval art, and these same students can now be thankful indeed that there is available a relatively inexpensive paperback English edition. And this edition is brought up to date from the first English edition (1963) with the addition of more recent bibliography. Bony's introduction is a fine tribute to Focillon, and explains clearly his role in his discipline. Focillon's main contributions were to the realm of ideas rather than to the realm of facts, and some of the dates and statements in *Art of the West* are incorrect. But these are relatively minor flaws, and there is not (and perhaps will never be) a better introduction to and summary of medieval art than this work." CHOICE Mar 70

Garrett, Wendell D. and others THE ARTS IN
AMERICA: THE NINETEENTH CENTURY
Scribner 1969 412p illus biblio
\$20.00 78-85279

"The sequel to the first-rate THE ARTS IN AMERICA: THE COLONIAL PERIOD (1966), edited by L.B. Wright. Like its predecessor it is composed of four separate essays by different specialists: W. Garrett on cultural history, Alan Gowans on painting and sculpture, Paul Norton on architecture, and Joseph Butler on the decorative arts. This is the first complete study of the major arts during the 19th century. The distinguished authors have not only provided useful summaries (unavailable elsewhere) of the current state of our knowledge but have advanced ideas of their own. The excellent and, in some cases, unusual illustrations, bibliographies, and index all help to make this book even more valuable and are further reasons for recommending it to all libraries, public and college, concerned with American art and culture. The most useful book available on 19th-century American art." CHOICE Mar 70

Literature

Garland, George Frederick, comp. SUBJECT GUIDE
TO BIBLE STORIES Greenwood 1969
365p \$12.00 69-19012

"This unique reference tool will be of use not only to religious teachers, but to librarians, students, and the general public as well. Garland, a Princeton graduate with a good background in Biblical teaching and research, has presented an easy-to-use guide to subjects in the Bible in two parts: an index of themes and ideas and an index to characters. The uniqueness of the guide lies in its reference only to narratives in the Bible. Concordances, dictionaries, and other guides have enabled researchers to find references to words, but the large number of references to any one word made the finding of specific stories difficult. In this volume, one can look under such terms as 'pleasure,' or 'agression,' (sic) and find references to stories illustrating these. Or, in the second part, one may look under such figures as Joshua or David and find stories about them. Unlike some guides, it may be used to locate stories in any version of the Bible that has numbered verses, e.g. the Revised Standard Version, the New English Bible, the Douay Bible, etc. It is a welcome addition to Biblical literature that fills a need previously unmet in the field."
CHOICE Apr 70

Hamburger, Michael THE TRUTH OF POETRY:
TENSIONS IN MODERN POETRY FROM BAUDE-
LAIRE TO THE 1960's Harcourt 1970
341p index \$7.50 72-85012

"In this study the author's concern is to locate such 'tensions' and conflicts as: symbolist aestheticism and reality (Mallarmé, Corbière); the poet and politics (Rilke, Brecht, Pound, Johannes Bobrowski); Lorca's sudden awareness of 'the modern experience' while visiting New York; the urge within William Carlos Williams,

Enzenberger, Ponge and Creeley to create an 'anti-poetry'; and urban life and the recent 'return to nature' in American poetry (Bly, Wright, Simpson). . . . Hamburger is a generous critic and since his book is 'not a history of Modern poetry, but an attempt to understand its nature, assumptions and functions,' he is able to discuss those poets he finds most rewarding. . . . His new book is one of the most helpful and penetrating studies of the last century of European and English poetry that has appeared. Recommended for all but the smallest poetry collections." LJ
1 Jun 70

Reynolds, Paul R. THE NON-FICTION BOOK: HOW TO WRITE AND SELL IT

See complete entry on page 4

Music

Ewen, David THE WORLD OF TWENTIETH CENTURY
MUSIC Prentice-Hall 1968 xxxi 989p
\$14.95 68-11358

"This work is a replacement for the author's previous THE COMPLETE BOOK OF TWENTIETH CENTURY MUSIC originally published in 1952. . . . Less than ten percent of the material from the earlier volume has been retained. A representation of works of major composers; brief bibliographies are followed by composers' works, chronologically arranged, with programmatic and analytical information. 'Ewen keeps his discussions of each composition non-technical, which should reassure the layman or the beginning student; on the other hand he remains sufficiently informative to interest the trained musician. The book's purpose — to offer a broad, knowledgeable chronology of the important music composed in our century, and to summarize composers and their works in relation to the contemporary development of music — is a useful one, competently achieved. 'Pub W.' " PLC 68

Social and Behavioral Sciences

*Debo, Angie A HISTORY OF THE INDIANS OF THE
UNITED STATES (CIVILIZATION OF THE
AMERICAN INDIAN) U of Okla 1970
386p illus maps biblio index \$8.95
73-108802

'It is probably impossible to write a survey history of the American Indian and satisfy everyone. This one has some obvious imperfections. It overemphasizes the Five Civilized Tribes about which the author has written four books, provides very little on the reservation period so critical for many tribes, and ignores the current red power movement. Nevertheless, it is a valuable book containing a wealth of information on a subject that should be of concern to all Americans. Debo writes with the indignation and insight which come from years of study of and active contact with Indians and their problems." LJ 1 Dec 70

Montagu, Ashley MAN: HIS FIRST TWO MILLION
YEARS: A BRIEF INTRODUCTION TO ANTHRO-
POLOGY Columbia Univ. Press 1969 262p
illus maps \$6.95 69-16956

"First published 1957 by World with title: MAN; HIS FIRST MILLION YEARS. 'The book is an introduction to what anthropology has discovered about man: his primate ancestors, his differentiation into the varied ethnic groups which we know today, and his diverse cultural response to his environment.' Publisher's note 'Here in a book that stands midway between textbook and a straight popularized primer on anthropology, (the author) writes with his usual clarity and wit . . . Even when he is presenting the facts and nothing but the facts, Montagu is an engaging writer." PLC

Morley, Frank THE LONG ROAD WEST: A JOURNEY
IN HISTORY Dial 1971 416p index
\$7.95 78-90853

"Popular history that is a delight to read is hard to find, but Morley shows he has discovered the secret in this book. His westward journey is not, as one might think, only the American westward journey with wagon trains, but rather the whole of westward migration, beginning with the escape of Moses and his people from Egypt, the Phoenicians, and the Greeks and Romans, and ending with the Union Pacific and Central Pacific railroads' meeting at Promontory Point in 1869. Morley discusses the sweep of history in terms of land roads, sea roads, and the 'whys' of migration. He uses quotations from authors of the periods discussed as well as from a wide variety of historians. He carefully footnotes each quote and nudges the reader into a desire to consult the original source. His conclusions are always interesting, always documented, and labeled as his own. Recommended. " LJ 1 Jan 71

Punzo, Vincent C. REFLECTIVE NATURALISM: AN INTRODUCTION TO MORAL PHILOSOPHY
Macmillan 1969 387p biblio \$7.95
69-15095

'Neither a manual of current ethical theories nor a simple defense of one school of moral theory, this college text is an attractively written presentation of ethics by means of what Punzo calls 'the expository critical method.' He presents the great theories of ethics by first giving the many conceptions and then exhibiting the difficulties involved in these theories. This is done so skillfully and impartially that the reader has ample opportunity to decide for himself the merits of each school of ethics. Punzo uses the same method in examining certain contemporary ethical problems; premarital coitus, abortion, responsibility for abundance of wealth, and war. " CHOICE Jan 70

Watson, Robert I. THE GREAT PSYCHOLOGISTS
FROM ARISTOTLE TO FREUD 2nd ed
Lippincott 1968 613p (Lippincott College
Psychology ser) \$10.00 68-15731

"... within each era or school, the major figures are examined and emphasized. Much detail is also given on the men and influences that preceded and followed these principal architects. The style is clear, informative, and comprehensive. All of the major theories and systems of psychology are covered. In some areas a more systematized approach to various disciplines and more definite experimental examples could have been offered. In some cases, as with the Gestalt principles of organization, illustrations would have aided comprehension. For the high school or college undergraduate who wishes to find out about the history of psychology or to supplement an introductory psychology course, this is excellent as an original source and reference. Extensive bibliographies supplement each chapter." PLC

Science and Technology

-Carman, Robert A. NUMBERS AND UNITS FOR
PHYSICS Wiley 1969 220p tab biblio
\$6.95 \$4.95pa 70-96040

"An interesting programmed text which covers much of the basic material on quantification encountered in an introductory physics course. The contents include: the Description of Physical Variable, Magnitude of a Physical Variable (exponential notation, the arithmetic of exponential quantities), Precision of Statement (significant digits, rounding), Units and Unit Conversion, The Units in Mechanics, the Units in Electricity and Magnetism, Units in Thermodynamics, and dimensional Analysis. There are appendices on Numerical Prefixes, Unit Conversion Tables, and Fundamental Physical Constants. A bibliography of recommended books and articles for further study is included. The format is similar to a

Computer - Assisted - Instruction (CAI) course. Test situations in each chapter lead the student through the material to be covered. If the student answers incorrectly he is given a hint, and then sent back to try the test question again. There are problem sets at the end of each chapter. If the student answers all, or almost all, of the problems in the set correctly, he proceeds to the next chapter; otherwise he goes back to the beginning of the chapter for review. Should be very useful as a supplementary drill or self study book for many students in introductory physics courses. Recommended for college instructional resources centers and for college libraries." CHOICE May 70

Herbest, J. J. DISCRETE AND INTEGRATED
SEMICONDUCTOR CIRCUITRY Chapman &
Hall (dist by Barnes & Noble) 1969 197p
illus tab \$6.00pa 78-428898

"Presents a blend of circuit analysis, circuit practice, and device technology suitable for a technician or anyone who finds himself involved in semiconductor circuitry without having had electronic training. The initial chapters introduce the reader to low and high frequency amplification and transistor switching. A chapter on Boolean algebra and digital computer arithmetic has been added prior to the chapters on digital integrated circuits. Other chapters cover operational amplifiers, integrated circuit amplifiers, and field-effect transistors. Since the fundamentals of semiconductor devices and semiconductor circuits are covered, there is a similarity to a large number of elementary books on this subject. It is assumed that the reader is not an electrical engineer and discusses the subject with such an elementary approach that it should be attractive to most beginners." CHOICE Mar 70

Martin, Lealon E. MENTAL HEALTH/MENTAL
ILLNESS: REVOLUTION IN PROGRESS
(Series in Health Education) McGraw 1970
174p \$5.50 77-118867

"This volume provides the general reader who lacks a background in the subject with an informative, well-written overview covering the definition and history of mental disease, categories of mental illness, incidence, treatment methods, current trends in research, and education of mental health manpower. The author, a leading authority in the field who is presently with the National Institute of Mental Health as a director for communications coordination, seeks to instill concern about mental health in those who read his work. . . . Yet he emphatically stresses that because 'our times are more frightening, debilitating, and conducive to mental and emotional degeneration than any in man's history,' progress must continue at an even higher rate. Most public and academic libraries would find this volume a valuable addition." LJ 15 Sep 70

Pimentel, George C. and Richard D. Spratley
CHEMICAL BONDING CLARIFIED THROUGH
QUANTUM MECHANICS Holden-Day 1969
343p illus tab \$8.50 \$4.50pa 71-75914

"Although written for a segment of a freshman chemistry course, this enjoyable introduction to quantum chemistry is equally well suitable for second or even third year level. Starting with very elementary concepts, Pimentel and Spratley proceed through atomic structure, the hydrogen molecule-ion, molecular orbital theory, geometry, polarity, and such topics as liquids and solids, the metallic state, boranes, and proteins. Liberal use of diagrams includes not only a pool table, guitar, and kettle drum, but also accurate orbital and molecular density contours, density difference maps, and excellent perspectives of orbital and molecular geometries. Well done charts and tables also add to the author's remarkable ability to present

difficult ideas in a straightforward, highly accessible, and often entertaining way with a minimum of oversimplification. The book may well displace Gray's classic ELECTRONS AND CHEMICAL BONDING (CHOICE June 1965) although there are enough differences to warrant using both. This is more readable and goes further in a qualitative sense where Gray is more patiently elementary and thorough. Both are far and away superior to other highly elementary treatments." CHOICE Feb 70

Smith, Derek A., ed. ADDITION POLYMERS:
FORMATION AND CHARACTERIZATION
Plenum 1968 492p illus tab biblio
\$22.00 68-28666

"A basic treatment of polymer science suitable as an introduction to the subject. Although containing basic concepts of polymerization processes, the book emphasizes characterization of polymeric materials and for that reason is fairly unique. More than the usual attention is given to instrumentation which is a bonus for those involved in the practical aspects of the subject. A substantial number of reference is given after each chapter permitting the reader to pursue the subject in more depth. Not rigorous mathematically or theoretically, and for that reason, would not be recommended for a graduate level course. However, it is ideally suited for persons who wish to obtain a basic understanding of polymer science by self study. " CHOICE Feb 70

Turner, Rufus 125 ONE-TRANSISTOR PROJECTS
TAB 1970 192p illus \$6.95 72-129045

"Turner presents an orderly compilation of single transistor circuits, covering a wide range of application (e.g., amplifiers, oscillators, control/ alarm devices, test instruments, power supplies, and receiver/transmitter related devices). Each circuit is accompanied by a narrative covering

operation, performance, and component description. Recommended to the student interested in acquiring familiarity with solid state circuitry and hobbyists with the ability to translate schematics into working electronic projects." LJ 1 Dec 70

Vesey - Fitzgerald, Brian Seymour THE WORLD OF
ANTS, BEES AND WASPS Pelham (dist. by
Transatlantic Arts) 1969 117p illus
biblio \$6.25 73-417466

"Vesey-Fitzgerald is not an entomologist and makes no claim to being more than an 'interested amateur' (he has written books on fishes, reptiles, dogs, cats, and other natural history subjects). Strictly a natural history written for the general reader who wants to learn more about insects and their habits. Interestingly written but anthropomorphic at times; illustrated with 16 black-and-white photographs; a few suggested references; index. Recommended for junior high, high school, and general libraries (including college undergraduates)." CHOICE Jan 70

Computer Technology

Herbest, J. J. DISCRETE AND INTEGRATED SEMI-
CONDUCTOR CIRCUITRY

See entry on page 15

Mathematics

Bashaw, W. L. MATHEMATICS FOR STATISTICS
Wiley 1969 326p tab \$8.50 \$4.95pa
69-16123

"Bashaw (Georgia) heads the Southeastern Society for Multivariate Experimental Psychology. He has drawn on his experience in teaching and applying statistics to produce a reference book covering exactly the mathematics required for a noncalculus statistics course in the liberal arts curriculum.

A student with only basic algebra can prepare himself for a statistics course with this book. Reviewed are fractions, inequalities, graphing, vector algebra, algebra of sets, and an introduction to probability. The sections are brief but easy to read and understand. There are useful chapters on table reading and computational accuracy, particularly important for beginners in statistical analysis. Many examples. Good index. No comparable text." CHOICE Jan 70

Kline, Morris MATHEMATICS AND THE PHYSICAL
WORLD Apollo 1969 (orig. Pub. by T. Y.
Crowell, 1959) 482p illus \$2.95pa 59-5252

"There is a whole family of books on mathematics for the non-mathematician. . . . Each has its own prerequisites and methods; all aim to ameliorate the distaste felt by many for mathematics. MATHEMATICS AND THE PHYSICAL WORLD is especially well suited to be read by the cultured layman. Written in an historical context, it relates how mathematics has developed along with physics from the time of the Greeks to the present day. . . . Amazingly, he solves problems and approaches new ideas (including non-Euclidean geometry) with just high school mathematics and common sense. College libraries not owning the original edition should acquire this reissue." CHOICE Jan 70

Ogilvy, C. Stanley EXCURSIONS IN GEOMETRY
Oxford Univ. Press 1969 178p illus index
\$6.00 78-83014

"Here is a work prepared to interest those who once liked geometry, but who were not stimulated by traditional courses. Not a textbook, it avoids definitions and abstractions and requires only a ruler and compass and the kind of creative thought that makes games fascinating. The notes indicate other sources, as a running commentary on the text, they help the reader over rough spots. Diagrams and a lucid style help to make the material easy to

follow; ideas are developed logically, and an understanding of basic algebraic equations results from the visualized geometric approach. The book is recommended for duplication in circulating and browsing collections that serve the general reader and well-informed layman whether in public, academic, or secondary school libraries." LJ 1 Feb 70

Saaty, Thomas L. & F. Joachim Weyl, eds. THE SPIRIT AND THE USES OF THE MATHEMATICAL SCIENCES McGraw 1969 301p \$7.95 69-16342

"This book was prepared for the Conference Board of the Mathematical Sciences under an NSF grant to inform the literate layman about current activities in mathematics and to develop a liberal appreciation of its cognitive power and beauty and an understanding of its applications. Contributors discuss math as a tool in the sciences and not as an intellectual discipline. Intellectual implications of computers and math in a child's world are among the topics discussed. Well written and a pleasure to read, this book should be in every library, including that of the high school." LJ 15 Jan 70

Silverman, Richard A. MODERN CALCULUS AND ANALYTIC GEOMETRY Macmillan 1970 1034p illus tab \$12.95 68-10185

"The Compleat Calculus' - surely this is the understood subtitle of Silverman's monumental text. He takes us from 'some basic mathematical vocabulary,' i.e. sets and functions, numbers and coordinates, through limits, derivatives and integrals, analytic geometry in R^2 and then R^3 , linear algebra and multiple integration, to the heights (or is it depths?) of Taylor's Theorem and the infinite series. There are 1,034 pages and a weight of more than four pounds!! The approach is essentially 'modern.' This has come to mean rigorous as to theorem proofs at each stage and well motivated by practical examples and closely knit sequential logic.

Silverman has gone almost to extremes to fulfill these aims. 1,600 problems are said to be included (not counted) and answers to odd numbers, often fully explained as well as worked, making this as much a self-learning textbook for abler students as it is an invaluable reference and source book for instructors. It does not matter where one turns in the book, thoroughness is the standard. The treatment of elementary concepts like the ordered field is no less complete, for the purpose of future discussion, than are vectors of the applications of double integrals. Worked examples are most clearly delineated and are prolific. Although this is likely to become the new standard textbook for the whole range of college calculus courses - it deserves to be just that." CHOICE Jul-Aug 70

Tropper, A. Mary AN INTRODUCTION TO LINEAR
ALGEBRA American Elsevier 1969 144p
biblio \$6.50 78-75144

"Most of the material presented is contained in many books on linear algebra and in greater depth. However, as Tropper states in the preface, 'This book is an attempt to present the theory so that it can be understood by readers who are not primarily mathematicians.' Written in clear, concise language. A number of examples is included. A set of problems is given at the end of each chapter (with answers in the back). Some applications of the theory are included. Mastery of the material should enable the reader to use linear algebra as a tool and should also prepare him to read the standard literature. A suggested reading list is included." CHOICE Jan 70

Economics

Rosenberg, Claude N., Jr. STOCK MARKET PRIMER
rev ed World 1970 (c1969) 351p tab
\$6.95 75-88595

"Really written in two parts: the first consists of the fundamentals of investing, and the second is Rosenberg's practical and personal recommendations for the novice in the market. In the preface he says, 'What encourages me most is that the revision entailed almost no change in the basic approach - what seemed basic and important seven years ago, still holds water today.' These fundamentals that are stated compare very favorably with Louis Engels, HOW TO BUY STOCKS (1962) and the classic material, HOW TO INVEST and HOW TO READ A BALANCE SHEET from Merrill Lynch, Pierce, Fenner & Smith. In this area no revisions are necessary. The book then changes to the personal judgment of a broker - what to buy, roads to big profits, spotting growth stocks, and a rather important list of stocks for four classes of people, from the conservative investor to the speculator. Rosenberg sums up his philosophies in the 17 basic common stock commandments. Many would not agree entirely with the second part but it is an honest summarization of the man's practices and beliefs. Sound in the basics, interesting in the author's personal recommendations, it is simply written, easy to comprehend, and would be an addition to any stock market library." CHOICE Oct 70

Thorp, Wilard L. THE REALITY OF FOREIGN AID
pub for the Council on Foreign Relations by
Praeger Feb 1971 405p \$12.50 70-121720

"If studies of international economic development can never project the drama of raw international politics, they can at least familiarize us with the basic data and expected trends in the developmental process. By these criteria, Thorp's careful analysis of the foreign aid network deserves praise indeed. . . . Beginning with an extensive description of the general setting of the aid process, he proceeds to investigate the disposition of the two main types of foreign aid - knowledge and capital. From there, he surveys the alternatives available to governments obliged to face the choices raised by foreign aid; how

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